National Assessment of Oil and Gas Project:

Petroleum Systems and Geologic
Assessment of Undiscovered Oil and
Gas, Cotton Valley Group and Travis
Peak—Hosston Formations, East Texas
Basin and Louisiana-Mississippi Salt
Basins Provinces of the Northern Gulf
Coast Region



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By U.S. Geological Survey Gulf Coast Region Assessment Team

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By U.S. Geological Survey Gulf Coast Region Assessment Team

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By Laura R.H. Biewick

Conversion Factors (Approximate) *

Note: For this assessment, 6,000 cubic feet of gas equals 1 barrel of oil equivalent (BOE).

To convert from	То	Multiply by
	Length	
foot (ft)	kilometer (km)	0.000305
foot (ft)	meter (m)	0.305
foot (ft)	mile (mi)	0.000189
kilometer (km)	foot (ft)	3,280
kilometer (km)	mile (mi)	0.621
meter (m)	foot (ft)	3.28
mile (mi)	foot (ft)	5,280
mile (mi)	kilometer (km)	1.61
	Area	
sq. kilometer (km²)	sq. mile (mi ²)	0.386
sq. mile (mi ²)	sq. kilometer (km²)	2.59
	Weight	
metric ton	ton, short (2,000 lb)	1.10
ton, short (2,000 lb)	metric ton	0.907
Crude oil (based	on average specific gravity at standard temper	rature and pressure)
barrel (bbl)	metric ton	0.136
barrel (bbl)	ton, short (2,000 lb)	0.150
metric ton	barrel (bbl)	7.33
ton, short (2,000 lb)	barrel (bbl)	6.65

Conversion Factors (Approximate)—Continued

To convert from	То	Multiply by
	Liquid fuels	
barrel (bbl)	cubic meter (m ³)	0.159
barrel (bbl)	gallon (gal)	42.0
barrel (bbl)	liter (L)	159
cubic meter (m ³)	barrel (bbl)	6.29
gallon (gal)	barrel (bbl)	0.0238
liter (L)	barrel (bbl)	0.00629
	Gaseous fuels	
cubic foot (ft ³)	cubic meter (m ³)	0.0283
cubic meter (m ³)	cubic foot (ft ³)	35.3
	Coproduct ratios	
cubic feet per barrel	cubic meters per cubic meters	0.178
(ft³/bbl or CF/B)	(m^3/m^3)	
barrel per million cubic feet	cubic centimeters per cubic meter	5.61
(bbl/1,000,000 ft ³ or B/MMCF)	(cm^3/m^3)	
cubic meters per cubic meters	cubic feet per barrel	5.61
(m^3/m^3)	(ft³/bbl or CF/B)	
cubic centimeters per cubic meters	barrel per million cubic feet	0.178
(cm^3/m^3)	(bbl/1,000,000 ft ³ or B/MMCF)	
	Geothermal gradients	
degree Celsius per 100 meters	degree Fahrenheit per 100 feet	0.549
(℃/100 m)	(°F/100 ft)	
degree Fahrenheit per 100 feet	degree Celsius per 100 meters	1.82
(°F/100 ft)	(°C/100 m)	

